Zambia

Epidemiological Fact Sheet

on HIV/AIDS and sexually transmitted infections



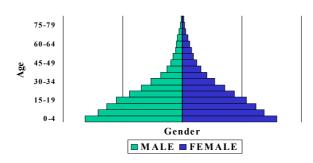
2000 Update





Country Information

Population pyramid, 1999



Indicators	Year	Estimate	Source
Total Population (thousands)	1999	8,976	UNPOP
Population Aged 15-49 (thousands)	1999	4,102	UNPOP
Annual Population Growth	1990-1998	2.4	UNPOP
% of Population Urbanized	1998	43	UNPOP
Average Annual Growth Rate of Urban Population	1990-1998	2.7	UNPOP
GNP Per Capita (US\$)	1997	370	World Bank
GNP Per Capita Average Annual Growth Rate	1996-1997	1.8	World Bank
Human Development Index Rank (HDI)	1999	151	UNDP
% Population Economic Active			
Unemployment Rate			
Total Adult Literacy Rate	1995	78	UNESCO
Adult Male Literacy Rate	1995	86	UNESCO
Adult Female Literacy Rate	1995	71	UNESCO
Male Secondary School Enrollment Ratio	1996	35.1	UNESCO
Female Secondary School Enrollment Ratio	1996	22.2	UNESCO
Crude Birth Rate (births per 1,000 pop.)	1999	42	UNPOP
Crude Death Rate (deaths per 1,000 pop.)	1999	20	UNPOP
Maternal Mortality Rate (per 100,000 live births)	1990	940	WHO
Life Expectancy at Birth	1998	40	UNPOP
Total Fertility Rate	1998	5.5	UNPOP
Infant Mortality Rate (per 1,000 live births)	1999	80	UNICEF/UNPOP

UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance

Global Surveillance of HIV/AIDS and sexually transmitted infections (STIs) is a joint effort of WHO and UNAIDS. The UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance, initiated in November 1996, guides respective activities. The primary objective of the working group is to strengthen national, regional and global structures and networks for improved monitoring and surveillance of HIV/AIDS and STIs. For this purpose, the working group collaborates closely with national AIDS programmes and a number of national and international experts and institutions. The goal of this collaboration is to compile the best information available and to improve the quality of data needed for informed decisionmaking and planning at national, regional and global levels. The Epidemiological Fact Sheets are one of the products of this close and fruitful collaboration across the globe.

The working group and its partners have established a framework standardizing the collection of data deemed important for a thorough understanding of the current status and trends of the epidemic, as well as patterns of risk and vulnerability in the population. Within this framework, the Fact Sheets collate the most recent country-specific data on HIV/AIDS prevalence and incidence, together with information on behaviours (e.g casual sex and condom use) which can spur or stem the transmission of HIV.

Not unexpectedly, information on all of the agreedupon indicators was not available for many countries in 1999. However, these updated Fact Sheets do contain a wealth of information which allows identification of strengths in currently existing programmes and comparisons between countries and regions. The Fact Sheets may also be instrumental in identifying potential partners when planning and implementing improved surveillance systems.

The fact sheets can be only as good as information made available to the UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance. Therefore, the working group would like to encourage all programme managers as well as national and international experts to communicate additional information to the working group whenever such information becomes available. The working group also welcomes any suggestions for additional indicators or information proven to be useful in national or international decision-making and planning.

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Estimated number of people living with HIV/AIDS

In 1999 and during the first quarter of 2000, UNAIDS and WHO worked closely with national governments and research institutions to recalculate current estimates on people living with HIV/AIDS. These calculations are based on the previously published estimates for 1997 and recent trends in HIV/AIDS surveillance in various populations. A methodology developed in collaboration with an international group of experts was used to calculate the new estimates on prevalence and incidence of HIV and AIDS deaths, as well as the number of children infected through mother-to-child transmission of HIV. Different approaches were used to estimate HIV prevalence in countries with low-level, concentrated or generalized epidemics. The current estimates do not claim to be an exact count of infections. Rather, they use a methodology that has thus far proved accurate in producing estimates that give a good indication of the magnitude of the epidemic in individual countries. However, these estimates are constantly being revised as countries improve their surveillance systems and collect more information.

Adults in this report are defined as women and men aged 15 to 49. This age range covers people in their most sexually active years. While the risk of HIV infection obviously continues beyond the age of 50, the vast majority of those who engage in substantial risk behaviours are likely to be infected by this age. The 15 to 49 age range was used as the denominator in calculating adult HIV prevalence.

□ Estimated number of adults and children living with HIV/AIDS, end of 1999

These estimates include all people with HIV infection, whether or not they have developed symptoms of AIDS, alive at the end of 1999

Adults and children	870000		
Adults (15-49)	830000	Adult rate (%)	19.95
Women (15-49)	450000		
Children (0-14)	40000		

□ Estimated number of deaths due to AIDS

Estimated number of adults and children who died of AIDS during 1999:

Deaths in 1999 99000

Estimated number of orphans

Estimated number of children who have lost their mother or both parents to AIDS (while they were under the age of 15) since the beginning of the epidemic:

Cumulative orphans 650000

Estimated number of children who have lost their mother or both parents to AIDS and who were alive and under age 15 at the end of 1999:

Current living orphans 447114

Assessment of epidemiological situation – Zambia

HIV seroprevalence information among antenatal clinic attendees is available since the mid-1980s from Zambia. In Zambia, Lusaka and Ndola are the major urban areas. HIV prevalence among antenatal women tested in the major urban areas increased from 5 percent in 1985 to 27 percent in 1992 and has remained stable at that rate through 1998. Although overall HIV prevalence rates have remained the same between 1992 and 1998, HIV prevalence among the youngest age group has declined. In 1993, 27 percent of antenatal clinic women less than 20 years of age tested were HIV positive. By 1998, that rate had declined to 17 percent. In 1994 and 1998, HIV prevalence among antenatal clinic women outside the major urban centers remained stable at 14 percent. HIV prevalence ranged from 5 percent to 31 percent of women tested in 18 sites in 1998. In 1994, 14 percent of antenatal clinic women less than 20 years of age who were tested outside of the major urban areas were HIV positive. This rate declined to 6 percent in 1998.

In 1991, 60 percent of male STD patients and 69 percent of female STD clinic patients tested in Lusaka were HIV positive. Outside of Lusaka, 41 percent of female STD patients tested were HIV positive.

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HIV sentinel surveillance

This section contains information about HIV prevalence in different populations. The data reported in the tables below are mainly based on the HIV data base maintained by the United States Bureau of the Census where data from different sources, including national reports, scientific publications and international conferences is compiled. To provide for a simple overview of the current situation and trends over time, summary data are given by population group, geographical area (Major Urban Areas versus Outside Major Urban Areas), and year of survey. Studies conducted in the same year are aggregated and the median prevalence rates (in percentages) are given for each of the categories. The maximum and minimum prevalence rates observed, as well as the total number of surveys/sentinel sites, are provided with the median, to give an overview of the diversity of HIV-prevalence results in a given population within the country. Data by sentinel site or specific study on which the medians were calculated are printed at the end of this fact sheet.

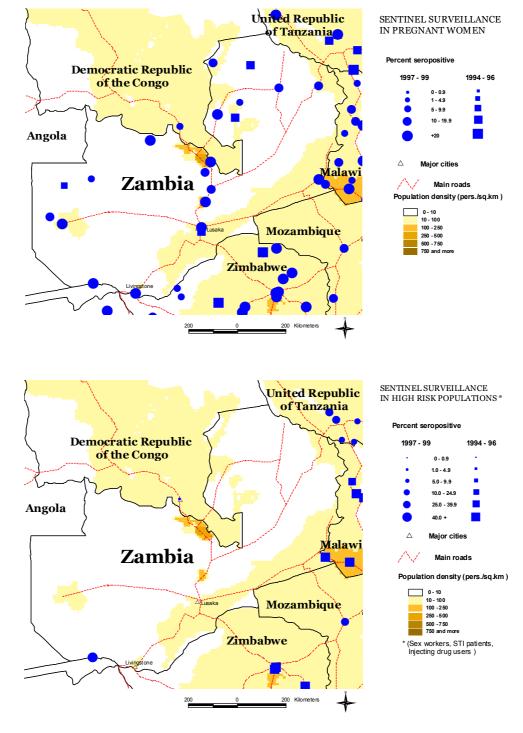
The differentiation between the two geographical areas Major Urban Areas and Outside Major Urban Areas is not based on strict criteria, such as the number of inhabitants. For most countries, Major Urban Areas were considered to be the capital city and – where applicable – other metropolitan areas with similar socio-economic patterns. The term Outside Major Urban Areas considers that most sentinel sites are not located in strictly rural areas, even if they are located in somewhat rural districts.

☐ HIV prevalence in selected populations in percent (for blood donors: 1/100 000)

Pegenati worse Major Ushan Arease Males 2 3 4 4 5 5 5 5 5 5 5 5	Group	Area		984 1985	1986 198		1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minima																	
Pegenthum and the property of			Minimum	2	11.	6		24.5		22.6	22	21.7		26.1		25.9	
Post			Median	5	11.	6		24.5		27	25.15	26.6		26.1		27	
Minimum			Maximum	8	11.	6		24.5		29.7	27.1	35.3		26.1		29.1	
Migration Migr	Pregnant women	Outside Major Urban Areas	N-sites					4	2	6	8	22				18	
Major Urban Area Ar			Minimum					9	7.5	5.9	4.9	5				5.2	
Series			Median					16.5	18	9.95	12.5	13.8				13.9	
Major Urban Arease Major U			Maximum					30	28.5	23.3	19.2	31.9				31	
Minum Ratio	Group	Area	19	984 1985	1986 198	7 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Marian M	Sex workers	Major Urban Areas	N-sites														
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Minimum Median			Maximum														
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Median 12.4 1.5	STI patients	Major Urban Areas	N-sites	2				2	2	1							
STI patients			Minimum	17.9				54	59.7	58							
Stip patients Pulside Major Urban Areas Pulside Minimum Mi			Median	22.4				56.5	64.2	58							
Minimum Median			Maximum	26.9				59	68.7	58							
Median	STI patients	Outside Major Urban Areas	N-sites						12								
Croup Area 1984 1985 1986 1987 1988 1989 1990 1990 1991 1993 1994 1995 1996 1997 1998 1999			Minimum						33.3								
Group Area 1984 1985 1986 1987 1988 1989 1990 1990 1991 1992 1993 1994 1995 1998 1998 1999 Blood Donors National N-sites Minimum Median Median Median Median Median Median 188 189 1898 1899 1899 1891 1898			Median						40.95								
National National National National National Minimum			Maximum						71.4								
Minimum Median Major Urban Areas Major	Group	Area	19	984 1985	1986 198	7 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
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Maximum Maximum Maximum Maximum Maximum Maximum Minimum Mini			Minimum														
Major Urban Areas Major Urban Areas Major Urban Areas Minimum Minimum Median Me			Median														
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men Minimum Median	Group	Area	19	984 1985	1986 198	7 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Median		Major Urban Areas	N-sites			·											
	men		Minimum														
Maximum			Median														
			Maximum														

Maps of HIV sentinel sites

Mapping the geographical distribution of HIV sentinel sites for different population groups may assist interpreting both the national coverage of the HIV surveillance system and explaining differences in levels and trends of prevalence. The UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance, in collaboration with the UNICEF/WHO HealthMap Programme, has produced maps showing the location and HIV prevalence of HIV sentinel sites in relation to population density, major urban areas and communication routes. Maps illustrate separately the most recent results from HIV sentinel surveillance in pregnant women and in sub-populations at higher risk of HIV infection.



The boundaries and names shown and the designations used on these maps do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

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Reported AIDS cases

Date of last report: 31/Jul/97

AIDS cases by year of reporting

0

1982

0

Following WHO and UNAIDS recommendations, AIDS case reporting is carried out in

sent to WHO. However, case reports come from surveillance systems of varying quality. All Reporting rates vary substantially from country to country and low reporting rates are common in developing countries due to weaknesses in the health care and epidemiological systems. In addition, countries use different AIDS case definitions. A main disadvantage of AIDS case reporting is that it only provides information on transmission patterns and levels of infection approximately 5-10 years in the past, limiting its usefulness for monitoring recent HIV infections.	All 0-4 5-9 10-14 15-19 20-24 25-29 30-34
Despite these caveats, AIDS case reporting remains an important advocacy tool and is useful in estimating the burden of HIV-related morbidity as well as for short-term planning of health care services. AIDS case reports also provide information on the demographic and geographic characteristics of the affected population and on the relative importance of the various exposure risks. In some situations, AIDS reports can be used to estimate earlier HIV infection patterns using back-calculation. AIDS case reports and AIDS deaths have been dramatically reduced in industrialized countries with the introduction of HAART (Highly Active Anti-Retroviral Therapy).	35-39 40-44 45-49 50-54 55-59 60+ NS All 0-4 5-9

1992

1584 3862 4477 4638 4702 5264 3376 2894 1963 5950 4552 1676

1993

10-14

15-19 20-24

25-29

30-34

35-39

40-44

45-49

50-54

55-59

1994

Aids cases by age and sex

<96

1995

1996

1997

1999

1999 Unkn. Total

44942

1985 1986 1987 1988 1989 1990 1991

AIDS cases by mode of transmission

NS: Not specified/unknown.

Blood

Perinatal

Unknown

Total

Hetero IDU

Blood

Perinatal

Unknown

Other Known

NS

Other Known

Hetero: Heterosexual contacts.

Homo/Bi: Homosexual contacts between men.

IDU: Injecting drug use. This transmission category also includes cases in which other high-risk behaviours were reported, in addition to injection of drugs.

Blood: Blood and blood products.

Perinatal: Vertical transmission during pregnancy, birth or breastfeeding.

Trans. Group <96 1996 1997 1998 1999 Unkn Total % All 3019 Total Hetero 2794 Homo/Bi 19 IDU 19 Blood 187 Perinatal 0 Other Known 0 Unknown 0 Male Total 0 Hetero 0 Homo/Bi 0 IDU 0 Blood 0 Perinatal 0 Other Known Unknown 0 Female Total 0 Hetero 0 IDU

0

0

0

0

3019 2794

19

19

187

0

0

	60+			
	NS			
Fer	nale All			
	0-4			
	5-9			
	10-14			
	15-19			
	20-24			
	25-29			
	30-34			
	35-39			
	40-44			
	45-49			
	50-54			
	55-59			
	60+			
	NS			
NS				
	0-4			
	5-9			
	5-9 10-14			
	5-9 10-14 15-19			
	5-9 10-14 15-19 20-24			
	5-9 10-14 15-19 20-24 25-29			
	5-9 10-14 15-19 20-24 25-29 30-34			
	5-9 10-14 15-19 20-24 25-29 30-34 35-39			
	5-9 10-14 15-19 20-24 25-29 30-34			
	5-9 10-14 15-19 20-24 25-29 30-34 35-39			
	5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44			
	5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49			
	5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54			

Curable Sexually Transmitted Infections (STIs)

The predominant mode of transmission of both HIV and other STIs is sexual intercourse. Measures for preventing sexual transmission of HIV and STI are the same, as are the target audiences for interventions. In addition, strong evidence supports several biological mechanisms through which STI facilitate HIV transmission by increasing both HIV infectiousness and HIV susceptibility. Significant also is the observation of a sharp decline in the concentration of HIV in the genital secretions when the infection is treated. Monitoring trends in STI can provide valuable information on the sexual transmission of HIV as well as the impact of behavioural interventions, such as promotion of condom use.

Clinical services offering STI care are an important access point for people at high risk for both AIDS and STI, not only for diagnosis and treatment but also for information and education. Therefore, control and prevention of STI have been recognized as a major strategy in the prevention of HIV infection and ultimately AIDS. One of the cornerstones of STI control is adequate management of patients with symptomatic STIs. This includes diagnosis, treatment and individual health education and counselling on disease prevention and partner notification. Consequently, monitoring different components of STI control can also provide information on HIV prevention within a country.

☐ Estimated incidence and prevalence of curable STIs

	Incidence				Prevalence			
STI's	Year	Male	Female	All	Year	Male	Female	All
Chlamydia trach.								
Gonorrhoea								
Syphilis								
Trichomonas								
Comments:								
Source:								

☐ STI Incidence, men

Prevention Indicator 9: Proportion of men aged 15-49 years who reported episodes of urethritis in the last 12 months.

	Year	Area	Age	Rate	N=	
	1996	All		8.9	1732	
Comments:	70116					

□ STI Prevalence, women

Prevention Indicator 8: Proportion of pregnant women aged 15-24 years attending antenatal clinics whose blood has been screened with positive serology for syphilis.

	Year	Area	Age	Rate	N=	
	1997	All		12.0	66000	
Comments:						
Sources:	NASTLP					

☐ STI Case management (counselled)

Prevention Indicator 7: Proportion of people presenting with STD or for STD care in health facilities who received basic advice on condoms and on partner notification.

	Year	Area	Age	Rate	N=	
	1996	All	(Male)	66.0		
	1996	All	(Female)	91.0		
Comments:	7DHS					

STI Case management (treatments)

Prevention Indicator 6: Proportion of people presenting with STD in health facilities assessed and treated in an appropriate way (according to national standards).

	Year	Area	Age	Rate	N=	
	1996	All	(Male)	90.0		
	1996	All	(Female)	98.0		
Comments: Sources:	7DHS					

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Health service indicators

HIV prevention strategies depend on the twin efforts of care and support for those living with HIV or AIDS, and targeted prevention for all people at risk or vulnerable to the infection. These efforts may range from reaching out to vulnerable communities through large-scale educational campaigns or interpersonal communication; provision of treatment for STIs; distribution of condoms and needles; creating and enabling environment to reduce risky behaviour; providing access to voluntary testing and counselling; home or institutional care for persons with symptomatic HIV infection; and preventing perinatal transmission and transmission through infected needles or blood in health care settings. It is difficult to capture such a large range of activities with one or just a few indicators. However, a set of well-established health care indicators – such as the percentage of a population with access to health care services; the percentage of women covered by antenatal care; or the percentage of immunized children – may help to identify general strengths and weaknesses of health systems. Specific indicators, such as access to testing and blood screening for HIV, help to measure the capacity of health services to respond to HIV/AIDS – related issues.

Access to health care

Indicators	Year	Estimate	Source
% of population with access to health services – total:	1996	52	ZDHS
% of population with access to health services – urban:	1996	34	ZDHS
% of population with access to health services – rural:	1996	14	ZDHS
Contraceptive prevalence rate (%):	1990-1999	26	UNICEF/UNPOP
% of births attended by trained health personnel:	1990-1999	47	UNICEF
% of 1-yr-old children fully immunized – DPT:	1995-1998	70	UNICEF
% of 1-yr-old children fully immunized – Polio:	1995-1998	70	UNICEF
% of 1-yr-old children fully immunized – Measles: Proportion of blood donations tested: % of ANC clinics where HIV testing is available: HIV/AIDS Hospital Occupancy Rate (Days):	1995-1998	69	UNICEF

Male and female condoms are the only technology available that can prevent sexual transmission of HIV and other STIs. Persons exposing themselves to the risk of sexual transmission of HIV should have consistent access to high quality condoms. AIDS Programmes implement activities to increase both availability of and access to condoms. The two condom availability indicators below are intended to highlight areas of strength and weakness at the beginning and end of the distribution system so that programmatic resources can be directed appropriately to problem areas.

□ Condom availability (central level)

Prevention Indicator 2: Availability of condoms in the country over the last 12 months (central level).

	Year	Area	N	Rate						
	1997	All	4400							
Comments: Sources:	Medical stores,	Care International, PPAZ and Sc	iciety for Family Health							
□ Condo	m availability (peripheral level)								
Prevention In	Prevention Indicator 3: Proportion of people who can acquire a condom (peripheral level).									
	Year	Area	N	Rate						

Comments

Sources

Knowledge and behaviour

In most countries the HIV epidemic is driven by behaviours (e.g.: multiple sexual partners, intravenous drug use) that expose individuals to the risk of infection. Information on knowledge and on the level and intensity of risk behaviour related to HIV/AIDS is essential in identifying populations most at risk for HIV infection and in better understanding the dynamics of the epidemic. It is also critical information in assessing changes over time as a result of prevention efforts. One of the main goals of the 2nd generation HIV surveillance systems is the promotion of regular behavioural surveys in order to monitor trends in behaviours and target interventions.

Knowledge of HIV- related preventive practices

Prevention Indicator 1: Proportion of people citing at least two acceptable ways of protection from HIV infection.

	Year	Area	Age	Group	Male	Female	All	
1996	Α	II	15-19	26.0	25.0	25.	5	
	1996	All	15-4	9	94.0	100.0	97.0	
	1996	All	20-2	4	24.0	23.0	23.5	
	1996	All	25-4	9	50.0	52.0	51.0	
Comments: Sources:	ZDHS							

Reported non-regular sexual partnerships

Prevention Indicator 4: Proportion of sexually active people having at least one sex partner other than a regular partner in the last 12 months.

Year	Area	Age Group	Male	Female	All	
1990	All	15-19	26.0	13.0		
1995	All	15-19	24.0	8.0		
1990	All	15-49	33.0	8.0		
1995	All	15-49	27.0	5.0		
1990	All	20-24	54.0	11.0		
1995	All	20-24	36.0	7.0		
1990	All	25-39	36.0	6.0		
1995	All	25-39	30.0	3.0		
1990	All	40-49	21.0	4.0		
1995	All	40-49	17.0	2.0		

Comments

1990-Lusak KABP/Behavioural Studies - GPA, 1993. Dynamics and determinants of the HIV epidemic: A review of Zamiban epidemiological, demographic and behavioural observations. K, Fylkesnes, Rosemary Mubanga Musonda, Kelvin Kasumba, Zacchaeus Ndhlovu, 1998, 1997 1995-Lusak Dynamics and determinants of the HIV epidemic: A review of Zamiban epidemiological, demographic and behavioural observations. K, Fylkesnes, Rosemary Mubanga Musonda, Kelvin Kasumba, Zacchaeus

Reported condom use in risk sex (gen pop)

Prevention Indicator 5: Proportion of people reporting the use of a condom during the most recent intercourse of risk.

Year	Area	Age Group	Male	Female	All	
1996	All	15-19	68.4	49.7	53.3	
1996	All	20-24	35.0	21.8	24.1	
1996	All	25-49	10.9	14.6	13.9	
1996	All	15-49	26.1	22.0	23.8	

Comments:

Sources: ZDHS

Knowledge and behaviour

☐ Ever use of condom

Percentage of people who ever used a condom.

Year	Area	Age Group	Male	Female	All	
1992	All	15-19		5.6		
1996	All	15-19	23.9	11.7		
1992	All	20-24		15.1		
1996	All	20-24	51.5	24.9		
1992	All	25-29		13.7		
1996	All	25-29	57.3	25.9		
1992	All	30-34		9.8		
1996	All	30-34	45.4	17.2		
1992	All	35-39		6.1		
1996	All	35-39	42.9	12.8		
1992	All	40-44		2.9		
1996	All	40-44	29.5	7.1		
1992	All	45-49		1.6		
1996	All	45-49	18.9	3.7		
1992	All	Total		9.1		
1996	All	Total	38.3	17.0		

Comments:

Sources:

Demographic and Health Survey

☐ Median age at first sexual experience

Median age of people at which they first had sexual intercourse.

Year	Area	Age Group	Male	Female	All	
1992	All	20-24		16.9		
1992	All	45-49		16.6		
1996	All	20-24		16.0		
1992	All	25-49		16.6		
1996	All	45-49	18.6	16.3		

Comments:

ZDHS

□ Adolescent pregnancy

Percentage of teenagers 15-19 who are mothers or pregnant with their first child

Year	Area	Age Group	N	Rate	
1992	All	15	384	5.3	
1996	All	15	398	4.5	
1992	All	16	427	14.7	
1996	All	16	419	15.3	
1992	All	17	392	29.9	
1996	All	17	379	28.3	
1992	All	18	380	54.3	
1996	All	18	406	46.1	
1992	All	19	401	65.6	
1996	All	19	401	59.4	

Comments:

Sources:

Sources

Data presented in this Epidemiological Fact Sheet come from several different sources, including global, regional and country reports, published documents and articles, posters and presentations at international conferences, and estimates produced by UNAIDS, WHO and other United Nations Agencies. This section contains a list of the more relevant sources used for the preparation of the Fact Sheet. Where available, it also lists selected national Web sites where additional information on HIV/AIDS and STI are presented and regularly updated. However, UNAIDS and WHO do not warrant that the information in these sites is complete and correct and shall not be liable whatsoever for any damages incurred as a result of their use.

- Duncan, L. E., A. M. Elliott, G. Tembo, et al., 1994, Limitations of the WHO/CDC Clinical Case Definition for AIDS in Africa, Tropical Doctor, vol. 24, pp. 11-12.
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12 – Zambia

Annex: HIV Surveillance data by site

Group Pregnant women	Area Major Urban Areas	Lusaka	1985 8	1986	1987 11.6	1988	1989	1990 24.5	1991	1992	1993	1994	1995	1996	1997	1998	1999
	,	Lusaka -								22.6	26.8	24.7		26.1		25.9	
		Chelstone Lusaka - Chilenje								27	22	35.3				27.3	
		Lusaka -									23.5	21.7				26.7	
		Kalingalinga Lusaka - Matero								29.7	27.1	28.4				29.1	
		Ndola	2														
Pregnant women	Outside Major Urban Areas	Chikankata								23.3	19.2						
		Chilonga Chipata										16.8 30.3				27.3	
		Chitokoloki										7.1				21.3	
		Ibenga										11.4				10.1	
		Isoka										10.6				11.7	
		Kabompo Kabwe						20				5 29.5				9.3	
		Kalabo								5.9	4.9	10.2				12.8	
		Kamuchanga										23.1					
		Kapiri Mposhi										13				16.5	
		Kasaba Kasama										12 23.8				5.2 14.7	
		Kashikishi										14.6				13	
		Livingstone										31.9				31	
		Macha								7.9	10	9.1				8	
		Mansa Minga								12.9	17.7	23.6 9.6				21.1	
		Mongu								12.5	17.7	28.4				27.3	
		Mporo Kosso										12.9					
		Mukinge						13	7.5		9.7	9.5				8.8	
		Mwinilunga Nchelenge						9		11.4	9.5 15.1						
		Ndola								11.4	10.1					27.5	
		Samfya										20					
0	A	Solwezi	4005	1000	4007	4000	4000	30	28.5	8.5	15	24.2	1005	4000	1007	20.2	1000
Group Sex workers	Area Major Urban Areas	Solwezi	1985	1986	1987	1988	1989	30 1990	28.5 1991	8.5 1992	15 1993	24.2 1994	1995	1996	1997	20.2 1998	1999
Group Sex workers	Area Major Urban Areas	Solwezi	1985	1986	1987	1988	1989						1995	1996	1997		1999
		Solwezi	1985	1986	1987	1988	1989						1995	1996	1997		1999
Sex workers	Major Urban Areas	Solwezi	1985	1986	1987	1988	1989						1995	1996	1997		1999
		Solwezi	1985	1986	1987	1988	1989						1995	1996	1997		1999
Sex workers	Major Urban Areas	Solwezi	1985	1986	1987	1988	1989						1995	1996	1997		1999
Sex workers Sex workers	Major Urban Areas Outside Major Urban Areas	Solwezi						1990	1991	1992	1993	1994				1998	
Sex workers Sex workers Group	Major Urban Areas Outside Major Urban Areas Area	Solwezi	1985	1986	1987	1988	1989						1995	1996	1997		1999
Sex workers Sex workers	Major Urban Areas Outside Major Urban Areas	Solwezi						1990	1991	1992	1993	1994				1998	
Sex workers Sex workers Group	Major Urban Areas Outside Major Urban Areas Area	Solwezi						1990	1991	1992	1993	1994				1998	
Sex workers Sex workers Group Injecting drug users	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas	Solwezi						1990	1991	1992	1993	1994				1998	
Sex workers Sex workers Group	Major Urban Areas Outside Major Urban Areas Area	Solwezi						1990	1991	1992	1993	1994				1998	
Sex workers Sex workers Group Injecting drug users	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas	Solwezi						1990	1991	1992	1993	1994				1998	
Sex workers Sex workers Group Injecting drug users Injecting drug users	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas Outside Major Urban Areas	Solwezi	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers Sex workers Group Injecting drug users Injecting drug users	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas Outside Major Urban Areas		1985					1990	1991	1992	1993	1994				1998	
Sex workers Sex workers Group Injecting drug users Injecting drug users	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas Outside Major Urban Areas	Ndola	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers Sex workers Group Injecting drug users Injecting drug users	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas Outside Major Urban Areas		1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers Sex workers Group Injecting drug users Injecting drug users	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas Outside Major Urban Areas	Ndola Lusaka (1) Lusaka (2) Lusaka (Males)	1985	1986	1987	1988	1989	1990 1990 1990 59	1991	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers Sex workers Group Injecting drug users Injecting drug users	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas Outside Major Urban Areas	Ndola Lusaka (1) Lusaka (2) Lusaka (Males) Lusaka (Females)	1985	1986	1987	1988	1989	1990 1990 1990 59	1991	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers Sex workers Group Injecting drug users Injecting drug users	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas Outside Major Urban Areas	Ndola Lusaka (1) Lusaka (2) Lusaka (Males) Lusaka (Females) Lusaka Province (Males)	1985	1986	1987	1988	1989	1990 1990 1990 59	1991	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers Sex workers Group Injecting drug users Injecting drug users	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas Outside Major Urban Areas	Ndola Lusaka (1) Lusaka (2) Lusaka (Males) Lusaka (Females) Lusaka Province (Males) Lusaka Province	1985	1986	1987	1988	1989	1990 1990 1990 59	1991	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers Sex workers Group Injecting drug users Injecting drug users	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas Outside Major Urban Areas	Ndola Lusaka (1) Lusaka (2) Lusaka (Males) Lusaka Province (Males) Lusaka Province (Females) Central Province	1985	1986	1987	1988	1989	1990 1990 1990 59	1991	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers Sex workers Group Injecting drug users Injecting drug users Group STI patients	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas Outside Major Urban Areas Area Major Urban Areas	Ndola Lusaka (1) Lusaka (2) Lusaka (Females) Lusaka Frovince (Males) Lusaka Province (Females) Central Province (Females, 1)	1985	1986	1987	1988	1989	1990 1990 1990 59	1991 1991 1991 59.7 68.7	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers Sex workers Group Injecting drug users Injecting drug users Group STI patients	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas Outside Major Urban Areas Area Major Urban Areas	Ndola Lusaka (1) Lusaka (2) Lusaka (Females) Lusaka Province (Males) Lusaka Province (Females) Central Province (Females, 1) Central Province (Females, 2)	1985	1986	1987	1988	1989	1990 1990 1990 59	1991 1991 1991 59.7 68.7 33.3 53.1	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers Sex workers Group Injecting drug users Injecting drug users Group STI patients	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas Outside Major Urban Areas Area Major Urban Areas	Ndola Lusaka (1) Lusaka (2) Lusaka (Females) Lusaka Province (Males) Lusaka Province (Females) Central Province (Females, 1) Central Province (Females, 2) Eastern Province	1985	1986	1987	1988	1989	1990 1990 1990 59	1991 1991 1991 59.7 68.7	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers Sex workers Group Injecting drug users Injecting drug users Group STI patients	Major Urban Areas Outside Major Urban Areas Area Major Urban Areas Outside Major Urban Areas Area Major Urban Areas	Ndola Lusaka (1) Lusaka (2) Lusaka (Females) Lusaka Province (Males) Lusaka Province (Females) Central Province (Females, 1) Central Province (Females, 2)	1985	1986	1987	1988	1989	1990 1990 1990 59	1991 1991 1991 59.7 68.7 33.3 53.1	1992	1993	1994	1995	1996	1997	1998	1999

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Annex: HIV Surveillance data by site

Group	Area		1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
STI Patients	Outside Major Urban Areas	Luapula Province							35.3								
		(Females, 1)															
		Luapula Province							41.1								
		(Females, 2)															
		Northern Province							49.3								
		(Females, 1)															
		Northern Province							71.4								
		(Females, 2)															
		Southern							40.8								
		Province															
		(Females, 1) Southern							50								
		Province							50								
		(Females, 2)															
		Western Province							35.1								
		(Females, 1)							33.1								
		Western Province							50								
		(Females, 2)							50								
Group	Area	(1 0111010, 2)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Blood Donors	National																
Blood Donors	Major Urban Areas																
Blood Donors	Outside Major Urban Areas																